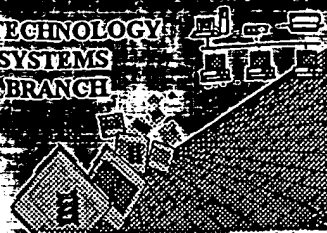The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/ 039171 B

Source: 1FWI6

Date Processed by STIC: 5/6/5

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:
1)   **INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,**
2)   **TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY**
FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.2 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:
        http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.
Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.
Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<http://www.uspto.gov/ebc/efs/downloads/documents.htm> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents; P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 06/05/04):
    U.S. Patent and Trademark Office, 220 20th Street S., Customer Window, Mail Stop Sequence, Crystal Plaza Two, Lobby, Room 1B03, Arlington, VA 22202

Revised 05/17/04

ERROR DETECTED	SUGGESTED CORRECTION	SERIAL NUMBER:_____

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

1____ Wrapped Nucleics
Wrapped Aminos
The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .); this will prevent "wrapping."

2____ Invalid Line Length
The rules require that a line not exceed 72 characters in length. This includes white spaces.

3____ Misaligned Amino Numbering
The numbering under each 5ᵗʰ amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.

4____ Non-ASCII
The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.

5____ Variable Length
Sequence(s)____ contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing

6____ PatentIn 2.0 "bug"
A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.

7____ Skipped Sequences (OLD RULES)
Sequence(s)____ missing. If intentional, please insert the following lines for each skipped sequence
(2) INFORMATION FOR SEQ ID NO X (insert SEQ ID NO where "X" is shown)
(i) SEQUENCE CHARACTERISTICS (Do not insert any subheadings under this heading)
(xi) SEQUENCE DESCRIPTION SEQ ID NO X (insert SEQ ID NO where "X" is shown)
This sequence is intentionally skipped

Please also adjust the "(ii) NUMBER OF SEQUENCES" response to include the skipped sequences

8 ____ Skipped Sequences (NEW RULES)
Sequence(s)____ missing. If intentional, please insert the following lines for each skipped sequence
<210> sequence id number
<400> sequence id number
000

9 ____ Use of n's or Xaa's (NEW RULES)
Use of n's and/or Xaa's have been detected in the Sequence Listing
Per 1.821 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present
In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents

10 ____ Invalid <213> Response
Per 1.821 of Sequence Rules, the only valid <213> responses are Unknown, Artificial Sequence or scientific name (Genus/species) <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence

11 ____ Use of <220>
Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.
(See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.821 of Sequence Rules)

12 ____ PatentIn 2.0 "bug"
Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.

13 ____ Misuse of n/Xaa
"n" can only represent a single nucleotide; "Xaa" can only represent a single amino acid

IFW16

RAW SEQUENCE LISTING   DATE: 05/06/2005
PATENT APPLICATION: US/10/039,171B   TIME: 13:59:56

Input Set : D:\UTSD749.APP.txt
Output Set: N:\CRF4\05052005\J039171B.raw

```
 3 <110> APPLICANT: HALEY, ROBERT
 4        VARLEY, ALAN
 5        MUNFORD, ROBERT
 7 <120> TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE DIAGNOSIS AND
 8        TREATMENT OF ORGANOPHOSPHATE TOXICITY
10 <130> FILE REFERENCE: UTSD:749US
12 <140> CURRENT APPLICATION NUMBER: 10/039,171B
13 <141> CURRENT FILING DATE: 2002-01-03
15 <160> NUMBER OF SEQ ID NOS: 5
17 <170> SOFTWARE: PatentIn Ver. 2.1
19 <210> SEQ ID NO: 1
20 <211> LENGTH: 36
21 <212> TYPE: DNA
22 <213> ORGANISM: Artificial Sequence
24 <220> FEATURE:
25 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
26        Primer
28 <400> SEQUENCE: 1
29 gcggccgcat ggcgaagctg attgcgctca ccctct                           36
32 <210> SEQ ID NO: 2
33 <211> LENGTH: 36
34 <212> TYPE: DNA
35 <213> ORGANISM: Artificial Sequence
37 <220> FEATURE:
38 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
39        Primer
41 <400> SEQUENCE: 2
42 tctagattag agctcacagt aaagagcttt gtgaaa                            36
45 <210> SEQ ID NO: 3
46 <211> LENGTH: 22
47 <212> TYPE: DNA
48 <213> ORGANISM: Artificial Sequence
50 <220> FEATURE:
50 <223> OTHER INFORMATION:
50 <400> 3
51 tattgttgct gtgggacctg ag                                          22
54 <210> SEQ ID NO: 4
55 <211> LENGTH: 23
56 <212> TYPE: DNA
57 <213> ORGANISM: Artificial Sequence
59 <220> FEATURE:
60 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
61        Primer
```

Does Not Comply
Corrected Diskette Needed
(P. 1)

W-->
W-->
W-->

INVALID RESPONSE. PLEASE EXPLAIN SEE ITEM # 11

MANDATORY <223> SOURCE OF GENETIC MATERIAL

RAW SEQUENCE LISTING   DATE: 05/06/2005
PATENT APPLICATION: US/10/039,171B   TIME: 13:59:56

          Input Set : D:\UTSD749.APP.txt
          Output Set: N:\CRF4\05052005\J039171B.raw

63 <400> SEQUENCE: 4
64 cacgctaaac ccaaatacat ctc   23
67 <210> SEQ ID NO: 5
68 <211> LENGTH: 23
69 <212> TYPE: DNA
70 <213> ORGANISM: Artificial Sequence
72 <220> FEATURE:
73 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
74   Primer
76 <400> SEQUENCE: 5
77 acccctactt acaatcctgg gag   23

RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 05/06/2005
PATENT APPLICATION: **US/10/039,171B**   TIME: 13:59:57

Input Set : **D:\UTSD749.APP.txt**
Output Set: **N:\CRF4\05052005\J039171B.raw**

Use of <220> Feature(NEW RULES):
Sequence(s)__are missing the <220> Feature and associated headings.
Use of <220> to <223> is MANDATORY if <213> ORGANISM is "Artificial Sequence"
or"Unknown". Please explain source of genetic material in <220> to <223>
section (See "Federal Register," 6/01/98, Vol. 63, No. 104,pp.29631-32)
(Sec.1.823 of new Rules)

Seq#:3

VERIFICATION SUMMARY   DATE: 05/06/2005
PATENT APPLICATION: **US/10/039,171B**   TIME: 13:59:57

Input Set : **D:\UTSD749.APP.txt**
Output Set: **N:\CRF4\05052005\J039171B.raw**

L:50 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ#:3, <213>
ORGANISM:Artificial Sequence
L:50 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ#:3, <213>
ORGANISM:Artificial Sequence
L:50 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:3,Line#:50